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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/748,105	12/31/2003	Seung-Nyung Chung	1793.1160	6927
21171 7590 11/27/2007 STAAS & HALSEY LLP SUITE 700			EXAMINER	
			VO, HUYEN X	
1201 NEW YORK AVENUE, N.W. WASHINGTON, DC 20005			ART UNIT	PAPER NUMBER
			2626	
			MAIL DATE	DELIVERY MODE
			11/27/2007	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)				
Office Action Comments	10/748,105	CHUNG ET AL.				
Office Action Summary	Examiner	Art Unit				
	Huyen X. Vo	2626				
The MAILING DATE of this commu Period for Reply	nication appears on the cover sheet wi	ith the correspondence address				
A SHORTENED STATUTORY PERIOD I WHICHEVER IS LONGER, FROM THE II - Extensions of time may be available under the provision after SIX (6) MONTHS from the mailing date of this complete of If NO period for reply is specified above, the maximum selection of the provision of the pro	MAILING DATE OF THIS COMMUNION of 37 CFR 1.136(a). In no event, however, may a remunication. Itatutory period will apply and will expire SIX (6) MON by will, by statute, cause the application to become AE	CATION. reply be timely filed WTHS from the mailing date of this communication. BANDONED (35 U.S.C. § 133).				
Status						
1)⊠ Responsive to communication(s) fil	ed on 04 September 2007.					
2a) ☐ This action is FINAL .						
3) Since this application is in condition	<u>. </u>					
	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims						
4) Claim(s) 1-29 is/are pending in the	application.					
4a) Of the above claim(s) is/are withdrawn from consideration.						
5) Claim(s) <u>1-13 and 17-29</u> is/are allow	wed.					
6)⊠ Claim(s) <u>14-16</u> is/are rejected.	<u> </u>					
7) Claim(s) is/are objected to.						
8) Claim(s) are subject to restri	8) Claim(s) are subject to restriction and/or election requirement.					
Application Papers						
9) ☐ The specification is objected to by the	ne Examiner.					
10)⊠ The drawing(s) filed on <u>31 December</u>	<u>er 2003</u> is/are: a)⊠ accepted or b)□	objected to by the Examiner.				
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11)☐ The oath or declaration is objected t	o by the Examiner. Note the attached	d Office Action or form PTO-152.				
Priority under 35 U.S.C. § 119						
12)⊠ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a)⊠ All b)☐ Some * c)☐ None of:						
 Certified copies of the priority 	1. Certified copies of the priority documents have been received.					
<u> </u>	2. Certified copies of the priority documents have been received in Application No					
·	of the priority documents have been	received in this National Stage				
	onal Bureau (PCT Rule 17.2(a)).					
* See the attached detailed Office action	on for a list of the certified copies not	received.				
Attachment(s)						
1) Unotice of References Cited (PTO-892) 4) Interview Summary (PTO-413) 2) Paper No(s)/Mail Date						
3) Information Disclosure Statement(s) (PTO/SB/08)	5) 🔲 Notice of I	nformal Patent Application				
Paper No(s)/Mail Date 6) Other:						

10/748,105 Art Unit: 2626

DETAILED ACTION

Response to Amendment

1. Applicant's arguments filed 9/4/2007 have been fully considered but they are not persuasive. The specification defines "computer-readable medium" as carrier waves, which are non-statutory. In order for the claimed invention to be considered statutory under 35 U.S.C 101, applicant is advised to delete "A computer-readable medium device may be any kind of recording medium in which computer-readable data is stored. Examples of such" (*lines 1-2 of paragraph 53, page 5 of the specification*) and ", and carrier waves (e.g., transmission via the Internet), and so forth" (*lines 3-4 of paragraph 53, page 5 of the specification*).

Claim Rejections - 35 USC § 101

- 1. 35 U.S.C. 101 reads as follows:
 - Whoever invents or discovers any new and useful process, machine, manufacture, or composition of matter, or any new and useful improvement thereof, may obtain a patent therefor, subject to the conditions and requirements of this title.
- 2. Claims 14-16 are rejected under 35 U.S.C. 101 because the claimed invention is directed to non-statutory subject matter.
- 3. Claims 14-16 are drawn to a "program" per se as recited in the preamble (paragraph 64 of the specification defines computer-readable medium as a carrier wave, which is a non-statutory subject matter) and as such is non-statutory subject matter. See MPEP § 2106.IV.B.1.a. Data structures not claimed as embodied in

10/748,105

Art Unit: 2626

computer readable media are descriptive material per se and are not statutory because they are not capable of causing functional change in the computer. See, e.g., Warmerdam, 33 F.3d at 1361, 31 USPQ2d at 1760 (claim to a data structure per se held nonstatutory). Such claimed data structures do not define any structural and functional interrelationships between the data structure and other claimed aspects of the invention, which permit the data structure's functionality to be realized. In contrast, a claimed computer readable medium encoded with a data structure defines structural and functional interrelationships between the data structure and the computer software and hardware components which permit the data structure's functionality to be realized, and is thus statutory. Similarly, computer programs claimed as computer listings per se. i.e., the descriptions or expressions of the programs are not physical "things." They are neither computer components nor statutory processes, as they are not "acts" being performed. Such claimed computer programs do not define any structural and functional interrelationships between the computer program and other claimed elements of a computer, which permit the computer program's functionality to be realized.

Allowable Subject Matter

4. Claims 1-13 and 17-29 are allowed over prior art of record.

Conclusion

10/748,105 Art Unit: 2626

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Huyen X. Vo whose telephone number is 571-272-7631. The examiner can normally be reached on M-F, 9-5:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Patrick Edouard can be reached on 571-272-7603. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

 HXV

11/16/2007